

ABSTRACT OF THE DISCLOSURE

Disclosed is a method and apparatus for crossbar arbitration. In one embodiment, the crossbar arbitration includes a memory, a plurality of functional units that transfer data to and from the memory, a crossbar unit that provides a data path from each unit to the memory, and an arbitration unit that monitors data traffic generated by each functional unit through the crossbar unit and assigns a priority to each functional unit based on the data traffic. In another embodiment, the crossbar arbitration includes a method for data transfer arbitration including monitoring data transfers for a plurality of devices, and assigning a priority to each device corresponding to the amount of data transfers generated by the device.